Journal of the
AUDIO ENGINEERING SOCIETY
SUBJECT AND AUTHOR INDEX
VOLUME 46—1998 NUMBERS 1–12

Key: Articles (A); Communications (C); Corrections (CORR); Editorials (E); Engineering Reports (ER); Features (F); Letters (L); Messages (M); Standards (S); and Technical Committee Reports (TCR).

SUBJECT INDEX

ACOUSTICS

Acoustical Physics

Two Decades of Diffusor Design and Development, Part 1: Applications and Design. D'Antonio, Peter and Cox, Trevor, 46:11, pp. 955–976 (1998)
Two Decades of Sound Diffusor Design and Development, Part 2: Prediction, Measurement, and Characterization. D'Antonio, Peter and Cox, Trevor, 46:12, pp. 1075–1091 (1998)

Orthogonal Sequence Modulated Phase Reflection Gratings for Wide-Band Diffusion. Angus, James A. S. and McManmon, Claire L., 46:12, pp. 1109–1118 (1998)

Environments

Other

Virtual Acoustics, Aeronautics, and Communications (ER). Begault, Durand R., 46:6, pp. 520–530 (1998)

A Method of Reproducing Concert Hall Sounds by "Loudspeaker Walls" (ER). Ono, Kazuho, Komiyama, Setsu, and Nakabayashi, Katsumi, 46:11, pp. 988–995 (1998)

Musical Instruments

The Air and Wood Modes of the Violin. Hutchins, Carleen Maley, 46:9, pp. 751–765 (1998)

Measurement and Evaluation

Relationships among Measures of Speech Intelligibility in Rooms. Bradley, J. S., 46:5, pp. 396–405 (1998)

Optimization of the Impulse Response Length: Application to Noisy and Highly Reverberant Rooms. Faiget, Laurent, Legros, Claude, and Ruiz, Robert, 46:9, pp. 741–750 (1998)

AUDIO ENGINEERING SOCIETY

Foreword (E). Bubbers, John J., 46:1/2, p. 3 (1998)

President's Message (E). Pramanik, Subir K., 46:1/2, p. 4 (1998)

The AES and Its Future (F). Furness, Roger K., 46:1/2, pp. 115–116 (1998)

Student Delegate Assembly Organizing Statement. 46:3, insert (1998)

Student Delegate Assembly Established (F). 46:3, p. 254 (1998)

Updates and Corrections to the 1997/1998 AES International Sections Directory (F). 46:3, p. 257 (1998)

Updates and Corrections to Review of Society's Sustaining Members (F). 46:3, pp. 261–262 (1998)

AES Goes Gold (F). Cohen, Abbie, 46:5, pp. 470–471 (1998)

Updates and Corrections to the 1997/1998 AES International Sections Directory (F). 46:7/8, p. 709–710 (1998)

President's Message (E). Bosi, Marina, 46:10, p. 835 (1998)

AES Officers 1998/1999 (F). 46:10, pp. 890–892 (1998)

Review of Society's Sustaining Members (F). 46:10, pp. 892–915 (1998)

AES News: Student Delegate Assembly Elects Officers (F). 46:10, p. 915 (1998)

AES Annual Report. 46:10, p. 930 (1998)

AES News: Hamm Becomes Eastern Region VP (F). 46:11, p. 1052 (1998)

1998/1999 AES International Sections Directory (F). 46:12, pp. 1142–1163 (1998)

Call for Nominations for Awards (F). 46:12, p. 1171 (1998)

Call for Nominations for Board of Governors (F). 46:12, p. 1172 (1998)

Journal of the
AUDIO ENGINEERING SOCIETY
SUBJECT AND AUTHOR INDEX
VOLUME 46—1998 NUMBERS 1–12

Key: Articles (A); Communications (C); Corrections (CORR); Editorials (E); Engineering Reports (ER); Features (F); Letters (L); Messages (M); Standards (S); and Technical Committee Reports (TCR).

SUBJECT INDEX

ACOUSTICS

Acoustical Physics

Two Decades of Diffusor Design and Development, Part 1: Applications and Design. D'Antonio, Peter and Cox, Trevor, 46:11, pp. 955–976 (1998)
Two Decades of Sound Diffusor Design and Development, Part 2: Prediction, Measurement, and Characterization. D'Antonio, Peter and Cox, Trevor, 46:12, pp. 1075–1091 (1998)

Orthogonal Sequence Modulated Phase Reflection Gratings for Wide-Band Diffusion. Angus, James A. S. and McManmon, Claire L., 46:12, pp. 1109–1118 (1998)

Environments

Other

Virtual Acoustics, Aeronautics, and Communications (ER). Begault, Durand R., 46:6, pp. 520–530 (1998)

A Method of Reproducing Concert Hall Sounds by "Loudspeaker Walls" (ER). Ono, Kazuho, Komiyama, Setsu, and Nakabayashi, Katsumi, 46:11, pp. 988–995 (1998)

Musical Instruments

The Air and Wood Modes of the Violin. Hutchins, Carleen Maley, 46:9, pp. 751–765 (1998)

Measurement and Evaluation

Relationships among Measures of Speech Intelligibility in Rooms. Bradley, J. S., 46:5, pp. 396–405 (1998)

Optimization of the Impulse Response Length: Application to Noisy and Highly Reverberant Rooms. Faiget, Laurent, Legros, Claude, and Ruiz, Robert, 46:9, pp. 741–750 (1998)

AUDIO ENGINEERING SOCIETY

Foreword (E). Bubbers, John J., 46:1/2, p. 3 (1998)

President's Message (E). Pramanik, Subir K., 46:1/2, p. 4 (1998)

The AES and Its Future (F). Furness, Roger K., 46:1/2, pp. 115–116 (1998)

Student Delegate Assembly Organizing Statement. 46:3, insert (1998)

Student Delegate Assembly Established (F). 46:3, p. 254 (1998)

Updates and Corrections to the 1997/1998 AES International Sections Directory (F). 46:3, p. 257 (1998)

Updates and Corrections to Review of Society's Sustaining Members (F). 46:3, pp. 261–262 (1998)

AES Goes Gold (F). Cohen, Abbie, 46:5, pp. 470–471 (1998)

Updates and Corrections to the 1997/1998 AES International Sections Directory (F). 46:7/8, p. 709–710 (1998)

President's Message (E). Bosi, Marina, 46:10, p. 835 (1998)

AES Officers 1998/1999 (F). 46:10, pp. 890–892 (1998)

Review of Society's Sustaining Members (F). 46:10, pp. 892–915 (1998)

AES News: Student Delegate Assembly Elects Officers (F). 46:10, p. 915 (1998)

AES Annual Report. 46:10, p. 930 (1998)

AES News: Hamm Becomes Eastern Region VP (F). 46:11, p. 1052 (1998)

1998/1999 AES International Sections Directory (F). 46:12, pp. 1142–1163 (1998)

Call for Nominations for Awards (F). 46:12, p. 1171 (1998)

Call for Nominations for Board of Governors (F). 46:12, p. 1172 (1998)

Bylaws: Audio Engineering Society, Inc. (F). 46:12, pp. 1182–1185 (1998)

Conferences

AES 16th International Conference Call for Papers, Rovaniemi, Finland (1999 April 10–12) (F). 46:6, pp. 601–602 (1998)

AES 15th International Conference Announcement, Copenhagen, Denmark (1998 October 31–November 2) (F). 46:7/8, p. 679 (1998)

AES 15th International Conference Preview, Copenhagen, Denmark (1998 October 31–November 2) (F). 46:9, pp. 786–794 (1998)

AES 15th International Conference Report, Copenhagen, Denmark (1998 October 31–November 2) (F). 46:12, pp. 1134–1141 (1998)

AES 17th International Conference Call for Papers, Florence, Italy (1999 September 2–5) (F). 46:12, pp. 1178–1179 (1998)

Conventions

AES 104th Convention Preview, Amsterdam, The Netherlands (1998 May 16–19) (F). 46:3, pp. 226–247 (1998)

AES 104th Convention Report, Amsterdam, The Netherlands (1998 May 16–19) (F). 46:6, pp. 546–588 (1998)

AES 105th Convention Preview, San Francisco, CA, USA (1998 September 26–29) (F). 46:7/8, pp. 666–703 (1998)

AES 106th Convention Call for Papers, Munich, Germany (1999 May 8–11) (F). 46:7/8, pp. 713–714 (1998)

AES 106th Convention Call for Papers, Munich, Germany (1999 May 8–11) (F). 46:9, pp. 816–817 (1998)

AES 105th Convention Report, San Francisco, CA, USA (1998 September 26–29) (F). 46:11, pp. 1004–1046 (1998)

AES 107th Convention Call for Papers, New York, NY, USA (1999 September 24–27) (F). 46:12, pp. 1180–1181 (1998)

Regional Conventions

AES 9th Regional Convention Call for Papers, Tokyo, Japan (1999 June 23–25) (F). 46:12, pp. 1176–1177 (1998)

Standards and Technical News (See also STANDARDS AND TERMINOLOGY)

AES Standards Committee News: Standards Meetings at the AES 104th Convention in Amsterdam (S). 46:3, p. 217 (1998)

AES Standards Committee News: Report of the Task Group on Symbols of the SC-05 Subcommittee on Interconnections Regarding Representation of Audio Levels in Articles and Specifications (S). 46:3, pp. 217–219 (1998)

AES Standards Committee News: Erratum to "Report of the Task Group on Symbols of the SC-05 Subcommittee on Interconnections Regarding Representation of Audio Levels in Articles and Specifications" (S). 46:6, p. 540 (1998)

AES Standards Committee News: Task Group Report to the SC-02-02 Working Group on Digital Input-Output Interfaces of the SC-02 Subcommittee on Digital Audio, Regarding Project AES-X45, Use of 96-kHz Sampling Rate with AES3 Interface (S). 46:3, pp. 219–220 (1998)

AES Standards Committee News: AES Contracts for Reproduction and Distribution of Its Standards (S). 46:4, p. 348 (1998)

AES Standards Committee News: Report of the Meeting of the SC-10-02 Working Group on Application Protocols of the SC-10 Subcommittee on Sound System Control, 1998-02-02 to -04, in Los Angeles, CA, US (S). 46:4, p. 348 (1998)

AES Standards Committee News: Report of the AESSC SC-01-02 Working Group on Mechanical Characteristics of the SC-01 Subcommittee on Analog Recording, on Project AES6-R, Revision of AES6-1982 (S). 46:4, pp. 348–349 (1998)

AES Standards Committee News: Report of the Meeting of the SC-02-01 Working Group on Digital Audio Measurements of the SC-02 Subcommittee on Digital Audio, Held in Conjunction with the AES 103rd Convention, 1997-09-24 (S). 46:4, p. 349 (1998)

AES Standards Committee News: Report of the Meeting of the SC-04-01 Working Group on Acoustics and Sound Source Modeling of the SC-04 Subcommittee on Acoustics at the AES 103rd Convention, 1997-09-24 (S). 46:4, pp. 349–350 (1998)

AES Standards Committee News: Report of Meeting of SC-06 to AESSC (S). 46:4, pp. 350–351 (1998)

AES Standards Committee News: Report of the Meeting of the SC-05-02 Working Group on Single Program Connections of the SC-05 Subcommittee on Interconnections, 1997-09-25 (S). 46:4, p. 351 (1998)

AES Standards Committee News: Report of AESSC SC-02-02 Working Group on Digital Input/Output Interfacing of the SC-02 Subcommittee on Digital Audio, 1997-09-24, at the Jacob Javits Convention Center, New York, NY, US (S). 46:5, pp. 448–449 (1998)

AES Standards Committee News: Report of the Meeting of the SC-03-05 Working Group on Preservation of Mechanical Media of the SC-03 Subcommittee on Audio Preservation and Restoration, Held in Conjunction with the AES 103rd Convention, 1997-09-25 (S). 46:5, p. 449 (1998)

AES Standards Committee News: Report of the Meeting of the SC-05-02 Working Group on Single Program Connections of the SC-05 Subcommittee on Interconnections, Held in Conjunction with the AES 103rd Convention, 1997-09-25 (S). 46:5, pp. 449–450 (1998)

AES Standards Committee News: Report of the Meeting of the SC-06-01 Working Group on Audio-File Transfer and Exchange of the SC-06 Subcommittee on Computer Network and File Transfer of Audio, Held in Conjunction with the AES 103rd Convention, 1997-09-25 (S). 46:5, pp. 450–451 (1998)

AES Standards Committee News: Report of the SC-10-02 Working Group on Application Protocols of the SC-10 Subcommittee on Sound System Control, 1997-09-24 (S). 46:5, pp. 451–452 (1998)

AES Standards Committee News: Report of the Meeting of the SC-06-01 Working Group on Audio-File Transfer and Exchange Held in Conjunction with the AES 104th Convention, 1998-05-15 (S). 46:6, pp. 540–541 (1998)

AES Standards Committee News: Report of the SC-02-05 Working Group on Synchronization of the SC-02 Subcommittee on Digital Audio, 1998-05-15 (S). 46:6, p. 541 (1998)

AES Standards Committee News: Standards Meetings at the AES 105th Convention in San Francisco, CA, US (S). 46:7/8, p. 657 (1998)

AES Standards Committee News: Report of the SC-04-03 Working Group on Loudspeaker Modeling and Measurement of the SC-04 Subcommittee on Acoustics, 1998-05-15, in Conjunction with the AES 104th Convention, Amsterdam (S). 46:7/8, pp. 657–658 (1998)

AES Standards Committee News: Report of the Meeting of the SC-05-03 Working Group on Multiple-Program Connections of the SC-05 Subcommittee on Interconnections, 1998-05-15, in Conjunction with the AES 104th Convention, Amsterdam (S). 46:7/8, p. 658 (1998)

AES Standards Committee News: Report of the AES Standards Committee SC-06-02 Working Group on Audio Applications Using the High Performance Serial Bus (IEEE 1394) of the SC-06 Subcommittee on Computer Network and File Transfer of Audio, 1998-05-15, in Conjunction with the AES 104th Convention in Amsterdam (S). 46:7/8, pp. 658–659 (1998)

AES Standards Committee News: AESSC Project AES-X58 (S). 46:7/8, pp. 659–663 (1998)

AES Standards Committee News: Call for Comment on Reaffirmation of AES Standards (S). 46:9, p. 780 (1998)

AES Standards Committee News: Report of the SC-02-02 Working Group on Digital Input/Output Interfacing of the SC-02 Subcommittee on Digital Audio, 1998-05-14, in Conjunction with the AES 104th Convention in Amsterdam, The Netherlands (S). 46:9, pp. 780–781 (1998)

AES Standards Committee News: Report of the SC-02-05 Working Group on Synchronization of the SC-02 Subcommittee on Digital Audio, 1998-05-15 (S). 46:9, pp. 781–782 (1998)

AES Standards Committee News: Report of the Meeting of the SC-06-01 Working Group on Audio File Transfer and Exchange, 1998-05-15, in Conjunction with the AES 104th Convention (S). 46:9, p. 783 (1998)

AES Standards Committee News: Report of the SC-03-05 Working Group on Mechanical Media of the SC-03 Subcommittee on Preservation and Restoration of Audio Recording in Conjunction with the AES 104th Convention, 1998-05-15, in Amsterdam, The Netherlands (S). 46:10, pp. 886–887 (1998)

AES Standards Committee News: Report of the Meeting of the WG-07 Working Group on Listening Tests at the AES 104th Convention in Amsterdam, The Netherlands, 1998-05-16 (S). 46:10, p. 887 (1998)

AES Standards Committee News: Report of the SC-02 Subcommittee on Digital Audio Meeting Held in Amsterdam, 1998-05-17 (S). 46:10, pp. 887–888 (1998)

AES Standards Committee News: Status of AESSC Projects (S). 46:11, pp. 996–1002 (1998)

AES Standards Committee News: Report of the Meeting of the SC-06-04 Working Group on Internet Audio Delivery Systems of the SC-06 Subcommittee on Network and File Transfer of Audio, in Conjunction with the 105th AES Convention, San Francisco, CA, US, 1998-09-25 (S). 46:12, pp. 1126–1127 (1998)

AES Standards Committee News: Report of the Meeting of the SC-05-03 Working Group on Multiple-Program Connections of the SC-03 Subcommittee on Interconnections, in Conjunction with the AES 105th Convention in San Francisco, CA, US (S). 46:12, pp. 1127–1128 (1998)

AES Standards Committee News: Report of the WG-12 Autonomous Working Group on Forensic Audio in Conjunction with the AES 105th Convention in San Francisco, CA, US (S). 46:12, p. 1128 (1998)

AES Standards Committee News: Report of the SC-04-03 Working Group on Loudspeaker Modeling and Measurements of the SC-04 Subcommittee on Acoustics in Conjunction with the AES 105th Convention in San Francisco, CA, US (S). 46:12, p. 1129–1130 (1998)

AES Standards Committee News: Report of the SC-02-02 Working Group on Digital Input/Output Interfacing of the SC-02 Subcommittee on Digital Audio, 1998-09-24, in Conjunction with the AES 105th Convention (S). 46:12, p. 1130–1131 (1998)

AES Standards Committee News: Report of the Meeting of Working Group SC-06-01 in Conjunction with 105th AES Convention, San Francisco, CA, US (S). 46:12, pp. 1131–1132 (1998)

EDUCATION AND AUDIO

1998 Directory of Educational Programs (F). 46:5, insert (1998)

HISTORY

Reminiscences on the Founding and Development of the Society (F). Plunkett, Donald J., 46:1/2, pp. 5–6 (1998)

Charter Members [of the AES] (F). 46:1/2, p. 6 (1998)

Officers, Governors, Editors [of the AES], 1949–1998 (F). 46:1/2, pp. 7–12 (1998)

Conventions and Conferences [of the AES], 1949–1997 (F). 46:1/2, pp. 13–16 (1998)

Audio Engineering Society Award Recipients (F). 46:1/2, pp. 17–26 (1998)

Highlights in the History of Multichannel Sound. Torick, Emil, 46:1/2, pp. 27–31 (1998)

Magnetic Recording. Bubbers, John J., 46:1/2, pp. 32–36 (1998)

Dawn of the Digital Age. Lipshitz, Stanley P., 46:1/2, pp. 37–42 (1998)

Fifty Years of Loudspeaker Developments as Viewed Through the Perspective of the Audio Engineering Society. Gander, Mark R., 46:1/2, pp. 43–58 (1998)

Electronic Technology. Leach, Jr., W. Marshall, 46:1/2, pp. 59–70 (1998)

Acoustics in the Audio Engineering Society. Schroeder, Manfred, 46:1/2, pp. 71–73 (1998)

Standards in the AES (F). Nunn, John, 46:1/2, pp. 74–86 (1998)

Education and the AES (F). Pritts, Roy, 46:1/2, pp. 88–92 (1998)

Introduction to Internationalization, Growth, and Future [of the AES] (E). Bubbers, John J., 46:1/2, p. 94 (1998)

AES British Section (F). Borwick, John, 46:1/2, pp. 94–97 (1998)

AES Goes Europe (F). Burkowitz, Peter K., 46:1/2, pp. 98–102 (1998)

Personal Memories of the AES in Eastern Germany and Eastern Europe (F). Steinke, Gerhard, 46:1/2, pp. 103–107 (1998)

Brief History of the AES Japan Section (F). Takasu, Akihiko and Goh, Katsuya (Vic), 46:1/2, pp. 108–110 (1998)

The Growth of the AES in Australia (F). Thiele, A. N., Horton, Fabian, Hudson, David, Murphy, David, and Smyth, John D., 46:1/2, pp. 111–114 (1998)

RECORDING AND REPRODUCTION

Other

The Compact Disc Story (F). Immink, Kees A. Schouhamer, 46:5, pp. 458–465 (1998)

SIGNALS

Music and Speech

Development and Calibration of a Guitar Synthesizer. Välimäki, Vesa and Tolonen, Tero, 46:9, pp. 766–778 (1998)

Noise Reduction

Methods for Reducing Audible Artifacts in a Wavelet-Based Broad-Band Denoising System (ER). Ramarapu, Pavan K. and Maher, Robert C., 46:3, pp. 178–190 (1998)

Signal Processing

A Comparison of Computational Methods for Instantaneous Frequency and Group Delay of Discrete-Time Signals. Georgopoulos, V. C. and Preis, D., 46:3, pp. 152–163 (1998)

Matrixed Surround Sound in an MPEG Digital World. Meares, D. J. and Theile, G., 46:4, pp. 331–335 (1998)

Dynamic Range Control (DRC) for Multichannel Audio Systems. Hoeg, Wolfgang, 46:4, pp. 336–340 (1998)

Dynamic Range Control in a Multichannel Environment. Cutmore, N. A. F., 46:4, pp. 341–347 (1998)

Music Signal Segmentation Using Tree-Structured Filter Banks (ER). Bobrek, Miljko and Koch, Daniel B., 46:5, pp. 412–427 (1998)

Head-Related Transfer Function Modeling in 3-D Sound Systems with Genetic Algorithms (ER). Cheung, Ngai-Man, Trautmann, Steven, and Horner, Andrew, 46:6, pp. 531–539 (1998)

Study of a Fast Method to Calculate Inverse Filters. Irisawa, Hideki, Shimada, Shoji, Hokari, Haruhide, and Hosoya, Shinichi, 46:7/8, pp. 611–620 (1998)

Analytic Derivation of Audio PWM Signals and Spectra. Floros, Andreas C. and Mourjopoulos, John N., 46:7/8, pp. 621–633 (1998)

Signal Convolution of Recorded Free-Field Gunshot Sounds (ER). Koenig, Bruce E., Hoffman, Shawn M., Nakasone, Hirotaka, and Beck, Steven D., 46:7/8, pp. 634–653 (1998)

Subtractive Dither for Internet Audio (C). Denckla, Ben, 46:7/8, pp. 654–656 (1998)

Modeling Acoustic Wind Instruments with Contiguous Group Synthesis (ER). Horner, Andrew and Ayers, Lydia, 46:10, pp. 868–879 (1998)

Adaptive Nonlinear Control of Loudspeaker Systems. Klippel, Wolfgang J., 46:11, pp. 939–954 (1998)

Frequency-Domain Equalization of Audio Systems Using Digital Filters, Part 1: Basics of Filter Design. Potchinkov, Alexander, 46:11, pp. 977–987 (1998)

Frequency-Domain Equalization of Audio Systems Using Digital Filters, Part 2: Examples of Equalization. Potchinkov, Alexander, 46:12, pp. 1092–1108 (1998)

STANDARDS AND TERMINOLOGY (Also see AUDIO ENGINEERING SOCIETY, Standards Committee News)

Electronics

AES17-1998 AES standard method for digital audio engineering — Measurement of digital audio equipment (S). 46:5, pp. 429–447 (1998)

Recording

Tape Flux Measurement Revisited. McKnight, John G. (Jay), Cortez, Benito E., and McKnight, Jeffrey A., 46:10, pp. 845–858 (1998)

Determining the Magnetization of Magnetic Tape. Schmidbauer, Otto, 46:10, pp. 859–864 (1998)

Method for Measuring the Absolute Magnitude and Frequency Response of the Flux on Magnetic Tape (*Reprint*). DIN Standard, 46:10, pp. 865–867 (1998)

Transducer

AES-5id-1997 AES information document for room acoustics and sound reinforcement systems — Loudspeaker modeling and measurement — Frequency and angular resolution for measuring, presenting, and predicting loudspeaker polar data (S). 46:3, pp. 191–216 (1998)

Transmission

DRAFT AES3-1992 Amendment 3-xxxx DRAFT Amendment 3 to AES Recommended practice for digital audio engineering — Serial transmission format for two-channel linearly represented digital audio data (S). 46:3, insert (1998)

DRAFT REVISED AES5-xxxx Draft Revised AES Recommended practice for professional digital audio applications employing pulse-code modulation — Preferred sampling frequencies (S). 46:4, insert (1998)

AES5-1998 (Revision of AES5-1984) AES Recommended practice for professional digital audio — Preferred sampling frequencies for applications employing pulse-code modulation (S). 46:10, pp. 880–885 (1998)

DRAFT AES3-1992 Amendment 3-xxxx to AES Recommended practice for digital audio engineering — Serial transmission format for two-channel linearly represented digital audio data (S). 46:11, insert (1998)

DRAFT REVISED AES24-1-xxxx AES Standard for sound system control — Application protocol for controlling and monitoring audio devices via digital data networks — Part 1: Principles, formats, and basic procedures (S). 46:12, insert (1998)

SYSTEMS

Sound Distribution

Audio on Data Networks (F). Rumsey, Francis, 46:5, pp. 466–468 (1998)

Multichannel and Stereophonic Techniques

Introduction: Eureka Project 1187 (Advanced Digital Television Technology) (E). Meares, David, 46:4, p. 275 (1998)

The Use of Subwoofers in the Context of Surround Sound Program Reproduction. Zacharov, Nick, Bech, Søren, and Meares, David, 46:4, pp. 276–287 (1998)

Subjective Appraisal of Loudspeaker Directivity for Multichannel Reproduction. Zacharov, Nick, 46:4, pp. 288–303 (1998)

Calibration of Relative Level Differences of a Domestic Multichannel Sound Reproduction System. Bech, Søren, 46:4, pp. 304–313 (1998)

The Influence of Stereophonic Width on the Perceived Quality of an Audiovisual Presentation Using a Multichannel Sound System. Bech, Søren, 46:4, pp. 314–322 (1998)

Program Origination of Five-Channel Surround Sound. Kirby, D. G., Cutmore, N. A. F., and Fletcher, J. A., 46:4, pp. 323–330 (1998)

The "Stereo Dipole"—A Virtual Source Imaging System Using Two Closely Spaced Loudspeakers. Kirkeby, Ole, Nelson, Philip A., and Hamada, Hareo, 46:5, pp. 387–395 (1998)

Three-Dimensional Sound Synthesis Based on Head-Related Transfer Functions. Zhang, Ming, Tan, Kah-Chye, and Er, M. H., 46:10, pp. 836–844 (1998)

TRANSDUCERS

Loudspeakers

Frequency Dividing Crossover Networks

Linear-Phase Crossover Design Using Digital IIR Filters. Reviriego, P., Parera, José, and García, R., 46:5, pp. 406–411 (1998)

Horn

Comparison of Two Methods for Measurement of Horn Input Impedance (ER). Schurer, Hans, Annema, Peter, de Bree, Hans-Elias, Slump, Cornelis H., and Herrmann, Otto E., 46:12, pp. 1119–1125 (1998)

Performance and Response

Thermal Time Constants and Dynamic Compressibility of Air in Fiber-Filled Loudspeaker Enclosures. Putland, Gavin R., 46:3, pp. 139–151 (1998)

Direct Feedback Linearization of Nonlinear Loudspeaker Systems. Klippel, Wolfgang, 46:6, pp. 499–507 (1998)

Theoretical and Experimental Comparison of Three Methods for Compensation of Electrodynamic Transducer Nonlinearity. Schurer, Hans, Slump, Cornelis H., and Herrmann, Otto E., 46:9, pp. 723–740 (1998)

Comments on "Discrete-Element Line Arrays—Their Modeling and Optimization" (L). Geddes, Earl R., 46:9, p. 779 (1998)

Other

Improving Loudspeaker Performance for Active Noise Control Applications. Lane, Steven A. and Clark, Robert L., 46:6, pp. 508–519 (1998)

Microphones

Performance and Response

Microphone and Mixing Techniques for Multichannel Surround Sound (F). Rumsey, Francis, 46:4, pp. 354–358 (1998)

TRANSMISSION AND RECEPTION

Measurement and Evaluation

Subjective Evaluation of State-of-the-Art Two-Channel Audio Codecs (ER). Soulodre, Gilbert A., Grusec, Theodore, Lavoie, Michel, and Thibault, Louis, 46:3, pp. 164–177 (1998)